

AMENDMENTS TO THE CLAIMS:

1. (Previously Presented) An automated method for conducting buy and sell transactions over a network for a non-commodity material or item that can have differing chemical and physical and/or electrical characteristics, comprising:

a plurality of sellers each providing to the network physical and chemical and/or electrical characteristics via at least one computer of a quantity of the non-commodity available for sale and a cost of the available non-commodity, creating a database of the non-commodity including the different physical and chemical characteristics for each non-commodity available;

a buyer providing to the network a performance simulation model of a chemical, mechanical, or electrical process with equipment currently in operation or intended to be in operation and with a desired amount of the non-commodity for use in the process, the performance simulation model being able to estimate the production cost and operating characteristics of the process based on chemical and physical and /or electrical characteristics of a non-commodity material or item used in the process;

the buyer also providing a desired maximum cost of operating the process, or maximum production cost of material or goods resulting from the process, or desired operating characteristics of the process that are dependent upon the non-commodity material or item; and

estimating the cost of operating the process or producing goods from the process for at least some of the different non-commodities from the database of different non-commodities in the performance model to make a comparison of the at least some of

the different non-commodities to determine which, if any, of the at least some of the different non-commodities are within the maximum process cost;

providing the buyer with a list of non-commodities that when used as input for the process are within the desired maximum process production or operating cost, or provide certain operating characteristics;

utilizing a database and standard datamining techniques to record performance of the process with a selected non-commodity item, and applying this information in the formulation of a request-for-proposal for future purchases of non-commodity materials or items.

2. (Original) The automated method of claim 1 further comprising providing the buyer with a list of non-commodities that provide for the lowest process production or operating cost, or achieving certain operating characteristics.

3. (Original) The automated method of claim 1 further comprising determining if blends of different non-commodities from different sellers achieve a lower process production or operating cost than each of the different non-commodities alone, or achieving certain desired operating characteristics, and if so, providing the buyer or at least some of the sellers with a list of which blends of non-commodities that achieve the lower process production or operating cost or provide the desired operating characteristics.

4. (Original) The automated method of claim 1 wherein the plurality of sellers provide to the network a current location of each non-commodity and the buyer provides to the network a location of the equipment and wherein the estimation of process production or operating cost utilizing each non-commodity includes an estimated cost of transportation from the current location of each non-commodity to the location of the equipment.

5. (Original) The automated method of claim 1 wherein the plurality of sellers also provide to the network a current location of each non-commodity, an available amount of each non-commodity, a period of availability for each non-commodity and a cost of each non-commodity at the current location of each non-commodity.

6. (Original) The automated method of claim 1 wherein the network is the Internet.

7. (Original) The automated method of claim 1 wherein the non-commodity is selected from the group consisting of: coal for use in steam electric equipment for power generation, crude oil for use in refining of gasoline, electronic components for use in engineering circuitry design and paper pulp for use in paper manufacture.

8. (Original) The automated method of claim 1 wherein the buyers also provide the network with a desired source of the non-commodity or provide the network with an indication of no preference as to the source of the non-commodity.

9. (Withdrawn) A system for conducting buy and sell transactions over a network for a non-commodity that can have differing chemical and physical characteristics, comprising:

means for a plurality of sellers to each provide to the network physical and chemical characteristics of a quantity of the non-commodity available for sale and a cost of the available non-commodity, creating a database of the non-commodity materials or items including the different physical and chemical and electrical characteristics for each non-commodity available;

means for a buyer to provide to the network a performance simulation model of a process utilizing equipment currently in operation or intended to be in operation and also utilizing a desired amount of the non-commodity for use in the process, the performance simulation model being able to estimate the production or operating cost and the operating characteristics of the process based on chemical and physical characteristics of a non-commodity used in the process;

means for the buyer to also provide a desired maximum production or operating cost of the process, or a range of desired operating characteristics; and

means for estimating the production or operating cost of the process utilizing at least some of the different non-commodities from the database of different non-commodities in the performance simulation model to make a comparison of the at least

some of the different non-commodities to determine which, if any, of the at least some of the different non-commodities are within the maximum process cost;

means for providing the buyer with a list of non-commodities that when utilized in the process provide for the desired maximum process production or operating cost, or provide for a range in desired operating characteristics.

10. (Withdrawn) The system of claim 10 further comprising means for providing the buyer with a list of non-commodities that when utilized in a process allow for a lowest process production or operating cost, or achieve a desired range of operating characteristics.

11. (Withdrawn) The system of claim 10 further comprising means for determining if blends of different non-commodities from different sellers achieve a lower process production or operating cost or range of desired operating characteristics, than each of the different non-commodities alone, and if so, providing the buyer or at least some of the sellers with a list of which blends of non-commodities achieve the lower process cost or provide certain desired operating characteristics.

12. (Withdrawn) The system of claim 10 further comprising means for the plurality of sellers provide to the network a current location of each non-commodity and means for the buyer to provide to the network a location of the equipment and wherein the estimation of process production or operating cost for each non-commodity includes

an estimated cost of transportation from the current location of each non-commodity to the location of the equipment.

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13. (Previously Presented) An automated method for conducting buy and sell transactions for coal over a computer network, comprising:

a plurality of sellers providing to the computer network physical and chemical characteristics of coals available for sale and a cost of each coal, creating a database of different coals;

a buyer providing to the computer network a performance simulation model of a power production process in power generation equipment currently in operation or intended to be in operation and with a desired amount of coal for use in the power production process, the performance simulation model being able to estimate the performance of the power production process based on chemical and physical characteristics of coals, and project operating characteristics in terms of technical risk or uncertainty associated with using different coals;

the buyer also providing a desired maximum power generation cost, and desired operating characteristics of the power production process due to impacts of coal composition; and

estimating the performance of the power production process for at least some of the different coals from the database of different coals in the performance simulation model to make a comparison of the at least some of the different coals to determine which, if any, of the at least some of the different coals are within the maximum power generation cost and desired range of operating characteristics;

providing the buyer with a list of coals that when utilized in given power production equipment are within the desired maximum power generation cost and operating characteristics due to coal composition impacts.

10 ~~14~~⁹. (Original) The automated method of claim ~~13~~⁹ further comprising providing the buyer with a list of coals that when utilized for power production with a given set of equipment provide for the lowest power generation cost and desired range of operating characteristics.

11 ~~15~~⁹. (Original) The automated method of claim ~~13~~⁹ further comprising determining if blends of different coals from different sellers achieve a lower power generation cost than each of the different coals alone, or provide a certain type of operating characteristic; and if so, providing the buyer or at least some of the sellers with a list of which blends of coals achieve the lower power generation cost or provide a certain type of operating characteristic.

12 ~~16~~⁹. (Original) The automated method of claim ~~13~~⁹ wherein the plurality of sellers provide to the network a current location of each coal and the buyer provides to the network a location of the power generation equipment and wherein the estimation of power generation cost for each coal includes an identification of the least cost transportation method(s), and an estimated cost of transportation from the current location of each coal to the location of the power generation equipment.

13 17. (Original) The automated method of claim ⁹13 wherein the plurality of sellers also provide to the network a current location of each coal, an available amount of each coal, a period of availability for each coal and a cost of each coal at the current location of each coal.

14 18. (Original) The automated method of claim ⁹13 wherein the network is the Internet and wherein the chemical and physical characteristics of the coal comprise: ash content, volatile matter content, fixed carbon content, moisture content, heating value, sulfur content and ash chemistry.

15 19. (Original) The automated method of claim ⁹13 wherein the buyers also provide the network with a desired source of coal or provide the network with an indication of no preference as to the source of the coal.

16 20. (Original) The automated method of claim ⁹13 further comprising utilizing a database describing the operation of the power generation equipment utilizing a coal ultimately selected, and in conjunction with standard datamining techniques defining trends in key operating variables for the coal ultimately selected, and applying an analysis of operating data to refine a request-for-proposal for future purchases of coal.